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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/734,287 12/15/2003		Chao-Hsin Lu	LUCH3010/EM	1797	
23364	7590 03/27/2006		EXAMINER		
BACON & THOMAS, PLLC			CHANG, JOSEPH		
625 SLATER FOURTH FL		ART UNIT	PAPER NUMBER		
ALEXANDR	LIA, VA 22314	2817			
		DATE MAILED: 03/27/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

TO	

Office Action Summary 10/734_287		дрисацоп но.	Applicant(s)				
Joseph Chang		10/734,287	LU, CHAO-HSIN				
The MALING DATE of this communication appears on the cover sheet with the correspondence address—Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions the imaging be available under the provisions of 37 CPR 1180(s) in one with flowers may any byte may be in the with the correspondence of 37 CPR 1180(s) in one with flowers may any byte in the provision of 37 CPR 1180(s) in one with flowers may any byte in the provision of 37 CPR 1180(s) in one with flowers may any byte in the provision of 37 CPR 1180(s) in one with flowers may any byte in the provision of 37 CPR 1180(s) in one with flowers may any byte in the provision of 37 CPR 1180(s) in one with flowers may any byte in the provision of 37 CPR 1180(s) in Section in S	Office Action Summary	Examiner	Art Unit				
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be are bised wheth the provision of 37 CFR 1.13(a), in ne event, however, may a rapy by the timely fited after (5x, 0) MONTES from the mailing date of this communication. - Failure to rapy which the sate or extended printed free view by a bistude, use the application to become ARANDONEO (3x U.S.C. § 133). - Any reply received by the Office bater than three monities after the mailing date of this communication, even if timely fited, may reduce any extended patient for reply with by the sate of extended printed freely will by statute, may be become ARANDONEO (3x U.S.C. § 133). - Any reply received by the Office bater than three monities after the mailing date of this communication, even if timely fited, may reduce any extended printed freely will be provided to the communication, even if timely fited, may reduce any extended printed freely will be provided to the communication, even if timely fited, may reduce any extended printed freely will be provided to the communication, even if timely fited, may reduce any extended printed freely will be provided to the communication, even if timely fited, may reduce any extended printed freely will be provided to the communication in the fitting and the correction is non-final. - 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. - Disposition of Claims - 4) Claim(s) 1-2 is/are rejected. - 1) Claim(s) 1-2 is/are rejected to by the Examiner. - 10) The drawing(s) filed on 1-1 is/are: a) 2 accepted or b) 0-1 objected to by the Examiner. - 10) The drawing(s) filed on 1-1 is/are: a) 2 accepted or b) 0-1 objected to by the Examiner. - 10) Claim(s) 1-2 is/are rejected to by the Examiner. - 10) All bold of the drawing ano		ALO OST TO EVENDS A MONTH	0) 00 71 110717 (00) 0 0 0				
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2a X This action is FINAL. 2b This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 X Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 4 X Claim(s) 1-9 is/are rejected. 5 X Claim(s) 1-9 is/are rejected to. 6 X Claim(s) 1-9	Status	,					
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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reddy et al.

Regarding claim 1, Reddy et al discloses a VCO (Figure 5) comprising a plurality of serial-coupled VCDL (delay stages 86) where each of the VCDLs has a delay time which corresponds to the voltage control signal (88), a multiplexer (90) coupled to the VCDL, a memory 92 is coupled to the multiplexer. As shown in Figures 5 and 1 of Reddy et al. the memory 92 controls the MUX 90 and a frequency detector 21 coupled to the multiplexer via output of VCO. Although, Reddy et al. does not expressly disclose a controller coupled to the frequency detector for outputting the control signal to the multiplexer according to the detecting signal, it would have been obvious to one of ordinary skill in the art to recognize that a controller (programmable logic device, col.2, lines 1-3) be coupled to the frequency detector to obtain center frequency information so that it can be stored in the memory for outputting the control signal (memory data) to the multiplexer according to the detected signal (the center frequency information) (Col. 1, line 52 - Col. 2, line 37).

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Regarding claims 2, 6, Figure 5 shows each of VCDL including a control terminal (nodes) for receiving the voltage control signal (88) and input and output stages of 86.

Regarding claim 5, Figure 5 shows voltage control signal (88) which corresponds to a predetermined frequency (the desired center oscillation frequency) and MUX 90 selects closest to the predetermined frequency (center frequency stored in memory 92).

Regarding claims 3, 4, 7-9, these method claims are the same in scope as apparatus claims 1, 2, 5 and 6, which would necessarily perform the method claimed and therefore, the claims are rejected.

Response to Arguments

Applicant's arguments with respect to claims 1-9 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Chang whose telephone number is 571 272-1759. The examiner can normally be reached on Mon-Fri 0700-1730.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JC

JOSEPH CHANG